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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/539,583	12/05/2005	Hyung-Pyo Yoon	0630-2354PUS1 4339		
	7590 01/10/2007 ART KOLASCH & BIF	EXAMINER			
PO BOX 747	· ·	. MOK, ALEX W			
FALLS CHUR	CH, VA 22040-0747		ART UNIT	PAPER NUMBER	
			2112		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE		
3 MO	NTHS	01/10/2007	ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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mailroom@bskb.com

		Applicati	on No.	Applicant(s)			
		10/539,5	83	YOON, HYUNG-PYO			
Office Action Summary				Art Unit			
		Alex W. N		2112			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	Responsive to communication(s) file	ed on 12/5/05.					
·	This action is FINAL . 2b)⊠ This action is non-final.						
'=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)	4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) 1-8 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restrict	ction and/or election r	equirement.				
Applicati	on Papers						
9)	The specification is objected to by th	e Examiner.		·			
10)⊠ The drawing(s) filed on <u>12/5/05</u> is/are: a) accepted or b)⊠ objected to by the Examiner.							
	Applicant may not request that any obje	ection to the drawing(s) I	oe held in abeyance. See	37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119	•					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
\cdot							
Attachmen	No.)						
_	e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application Paper No(s)/Mail Date 6/17/05. 6) Other:							

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 12/05/2005 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Drawings

2. Figures 1, 2, 3, and 4 should be designated by a legend such as --Conventional Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al. (US Application Publication No.: US 2002/0135264 A1), and further in view of Park (US Application Publication No.: US 2002/0105247 A1).

Song et al. discloses a reciprocating motor having an outer stator (outer core 10, see paragraph [0003]), an inner stator (inner core 20, see paragraph [0003]), a magnet paddle (armature 40, see paragraph [0003]), and a terminal part (terminal part 52, see paragraph [0008]).

For claim 1, Song et al. differs from the claimed invention in that the motor is not taught to have a "magnetic force balancing part".

For claims 2 and 3, Song et al. differs from the claimed invention in that the "magnetic force balancing part" is not taught to have the same shape mentioned in claim 2, nor is it taught to have the same sectional area mentioned in claim 3, as the terminal part.

For claim 4, Song et al. differs from the claimed invention in that the "magnetic force balancing part" is not taught to be integrally formed with the bobbin.

Park, however, teaches a reciprocating motor having a plurality of unit stacked core members (each formed by a plurality of lamination sheets) that are separately positioned from each other around the outer circumference of the bobbin (see figure 4, and paragraph [0027]).

It would have been obvious to one of ordinary skill in the art to have the lamination sheets of the motor of Song et al. be separated, just as the core members

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are separated in the invention of Park, and thus forming the "magnetic force balancing part", which is inherently integrally formed with the bobbin (and inherently be the same shape and sectional area as the terminal part), since such a technique would have logically commended itself to an inventor's attention in making the electromagnetic field formed between the inner and the outer stator of the motor uniform.

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Also, for claim 6, to have used the technique of disposing the "magnetic force balancing parts" at the same intervals on the basis of the terminal part on the circumference of the outer stator in the motor of Song et al. would have been obvious to one of ordinary skill in the art, since Park illustrates the unit stacked core members to be disposed at the same intervals around the outer circumference of the motor (see figures 4, 5, and 7).

For claims 5, 7, and 8, these intervals as mentioned above encompass the intervals of 180 degrees, 120 degrees, and 90 degrees, respectively.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Park et al. (US Application Pub. No.: US 2003/0086796 A1), Park (US Application Pub. No.: US 2002/0105248 A1).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alex W. Mok whose telephone number is (571)272-

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9084. The examiner can normally be reached on 7:30-5:00 Eastern Time, 1st Friday

off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jayprakash N. Gandhi can be reached on (571) 272-9820. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alex W. Mok Examiner

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A.M.

JAYPRAKASH GANDHI

SUPERVISORY PATENT EXAMINER

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